

# Data Communication Prakash Gupta

DATA COMMUNICATIONS AND COMPUTER NETWORKS

ICICV 2019

PCCDS 2020

Proceedings of ICCIS 2019

5th International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2019, Gurugram, India, November 15–16, 2019, Revised Selected Papers, Part II

A Collection of Notes Based on Lectures by Gilles Pisier, K. R. Parthasarathy, Vern Paulsen and Andreas Winter

International Conference, AIM 2011, Nagpur, Maharashtra, India, April 21-22, 2011, Proceedings

Remote Sensing Geology

Innovative Data Communication Technologies and Application

Advanced Computing

Data Communications

A Modern Approach

OPTRONIX 2020

Evolving Technologies for Computing, Communication and Smart World

Innovations in Software-Defined Networking and Network Functions Virtualization

Recent Advances in Security, Privacy, and Trust for Internet of Things (IoT) and Cyber-Physical Systems (CPS)

Elements of Programming Interviews in Python

Ibi

Applications of Deep Learning and Big IoT on Personalized Healthcare Services

Data Analytics and Management

First International Conference, ICACDS 2016, Ghaziabad, India, November 11-12, 2016, Revised Selected Papers

CRYPTOGRAPHY AND NETWORK SECURITY

Advances in Smart Communication Technology and Information Processing

Intelligent Communication Technologies and Virtual Mobile Networks

Theoretical Foundations and Applications

Handbook of Computer Networks and Cyber Security

Proceedings of the 2nd International Conference on Communication and Computing Systems (ICCCS 2018), December 1-2, 2018, Gurgaon, India

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## REYES JAMIE

DATA COMMUNICATIONS AND COMPUTER NETWORKS Cengage Learning

It is a great pleasure in presenting Business Communication as a Text Book for B. Com. classes. The Book has been written strictly in accordance with the latest syllabus of different universities. 1.

Basic Forms of Business Communication, 2. Different Models and Processes of Communication, 3.

Effective Communication, 4. Theories of Communication and Audience Analysis, 5. Self-Development

and Communication, 6. Corporate Communication, 7. Barriers and Breakdowns in Communication,

8. Practices in Business Communication, 9. Principles of Effective Communication, 10. Writing Skills,

11. Written Business Communication, 12. Written Business Communication-Medium : Letters, 13.

Kinds of Business Letters : Request Letters, 14. Good and Bad New Letters, 15. Persuasive Letters :

Sales Letters and Collection Letters, 16. Office Memorandum and Circular, 17. Proposal and Report

Writing, 18. Oral Presentation, 19. Non-Verbal Aspects of Communication, 20. Effective Listening, 21.

Interviewing Skills, 22. Modern Forms of Communication, 23. International Communication, 24.

International Communication Adopting to Global Business.

ICICV 2019 EPI

In the constant battle between human intelligence and machine intelligence, machines are close to

surpassing human intelligence. The unrestrained use of digital technologies in automating processes

is one of the prime advantages of the third industrial revolution. As a result, all developed and

developing nations have started to digitalize mundane tasks. Thus, digital technologies for

information and communication technologies (ICT) have achieved high market space in terms of

infrastructure building, employment generation, education sector reforms, funds mobilization,

electronic governance, hardware manufacturing, software development, etc. Hence, it is evident

that every segment of society has been penetrated by ICT or digitalization. This book attempts to

spotlight areas where AI is thriving. FEATURES Impact of digitalization and AI on governance Novel

AI practices being followed across the global community in security, healthcare, crime prevention

and detection, education, agriculture, sensor networks, etc. Innovative techniques that can be

adopted to ensure better quality and better delivery of services to the society Avenues for further

research by the research community and student fraternity This book is a guide for university

students (especially those from technical backgrounds), industries, NGOs, and policy makers.

PCCDS 2020 CRC Press

The field of computational intelligence has grown tremendously over that past five years, thanks to

evolving soft computing and artificial intelligent methodologies, tools and techniques for envisaging

the essence of intelligence embedded in real life observations. Consequently, scientists have been

able to explain and understand real life processes and practices which previously often remain

unexplored by virtue of their underlying imprecision, uncertainties and redundancies, and the

unavailability of appropriate methods for describing the incompleteness and vagueness of

information represented. With the advent of the field of computational intelligence, researchers are

now able to explore and unearth the intelligence, otherwise insurmountable, embedded in the

systems under consideration. Computational Intelligence is now not limited to only specific

computational fields, it has made inroads in signal processing, smart manufacturing, predictive

control, robot navigation, smart cities, and sensor design to name a few. Recent Trends in

Computational Intelligence Enabled Research: Theoretical Foundations and Applications explores the

use of this computational paradigm across a wide range of applied domains which handle

meaningful information. Chapters investigate a broad spectrum of the applications of computational

intelligence across different platforms and disciplines, expanding our knowledge base of various

research initiatives in this direction. This volume aims to bring together researchers, engineers,

developers and practitioners from academia and industry working in all major areas and

interdisciplinary areas of computational intelligence, communication systems, computer networks, and soft computing. Provides insights into the theory, algorithms, implementation, and application of computational intelligence techniques Covers a wide range of applications of deep learning across various domains which are researching the applications of computational intelligence Investigates novel techniques and reviews the state-of-the-art in the areas of machine learning, computer vision, soft computing techniques

Proceedings of ICCIS 2019 Springer Nature

This book presents best selected papers presented at the International Conference on Evolving

Technologies for Computing, Communication and Smart World (ETCCS 2020) held on 31 January–1

February 2020 at C-DAC, Noida, India. It is co-organized by Southern Federal University, Russia;

University of Jan Wyżykowski (UJW), Polkowice, Poland; and CSI, India. C-DAC, Noida received

funding from MietY during the event. The technical services are supported through EasyChair,

Turnitin, MailChimp and IAC Education. The book includes current research works in the areas of

network and computing technologies, wireless networks and Internet of things (IoT), futuristic

computing technologies, communication technologies, security and privacy.

5th International Conference on Recent Developments in Science, Engineering and Technology,

REDSET 2019, Gurugram, India, November 15–16, 2019, Revised Selected Papers, Part II Springer

This book presents best selected papers presented at the International Conference on Paradigms of

Computing, Communication and Data Sciences (PCCDS 2020), organized by National Institute of

Technology, Kurukshetra, India, during 1-3 May 2020. It discusses high-quality and cutting-edge

research in the areas of advanced computing, communications and data science techniques. The

book is a collection of latest research articles in computation algorithm, communication and data

sciences, intertwined with each other for efficiency.

A Collection of Notes Based on Lectures by Gilles Pisier, K. R. Parthasarathy, Vern

Paulsen and Andreas Winter Springer Nature

This book is a collection of best selected research papers presented at the 6th International

Conference on Opto-Electronics and Applied Optics (OPTRONIX 2020) organized by the University of

Engineering & Management, Kolkata, India, in June 2020. The primary focus is to address issues and

developments in optoelectronics with particular emphasis on communication technology, IoT and

intelligent systems, information processing and its different kinds. The theme of the book is in

alignment with the theme of the conference “Advances in Smart Communication Technology and

Information Processing.” The purpose of this book is to inform the scientists and researchers of this

field in India and abroad about the latest developments in the relevant field and to raise awareness

among the academic fraternity to get them involved in different activities in the years ahead – an

effort to realize knowledge-based society.

International Conference, AIM 2011, Nagpur, Maharashtra, India, April 21-22, 2011, Proceedings

World Scientific

DATA COMMUNICATIONS AND COMPUTER NETWORKSPHI Learning Pvt. Ltd.

Remote Sensing Geology Springer Nature

This two-volume set (CCIS 1229 and CCIS 1230) constitutes the refereed proceedings of the 5th

International Conference on Recent Developments in Science, Engineering and Technology, REDSET

2019, held in Gurugram, India, in November 2019. The 74 revised full papers presented were

carefully reviewed and selected from total 353 submissions. The papers are organized in topical

sections on data centric programming; next generation computing; social and web analytics;

security in data science analytics; big data analytics.

Innovative Data Communication Technologies and Application Springer Nature

This book provides a comprehensive yet easy coverage of ad hoc and sensor networks and fills the

gap of existing literature in this growing field. It emphasizes that there is a major interdependence

among various layers of the network protocol stack. Contrary to wired or even one-hop cellular

networks, the lack of a fixed infrastructure, the inherent mobility, the wireless channel, and the underlying routing mechanism by ad hoc and sensor networks introduce a number of technological challenges that are difficult to address within the boundaries of a single protocol layer. All existing textbooks on the subject often focus on a specific aspect of the technology, and fail to provide critical insights on cross-layer interdependencies. To fully understand these intriguing networks, one needs to grasp specific solutions individually, and also the many interdependencies and cross-layer interactions.

*Advanced Computing* Springer Nature

This text explains the general principles of how wireless systems work, how mobility is supported, what the underlying infrastructure is and what interactions are needed among different functional components. Designed as a textbook appropriate for undergraduate or graduate courses in Computer Science (CS), Computer Engineering (CE), and Electrical Engineering (EE), *Introduction to Wireless and Mobile Systems* third edition focuses on qualitative descriptions and the realistic explanations of relationships between wireless systems and performance parameters. Rather than offering a thorough history behind the development of wireless technologies or an exhaustive list of work being carried out, the authors help CS, CE, and EE students learn this exciting technology through relevant examples such as understanding how a cell phone starts working as soon as they get out of an airplane. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

*Data Communications* Springer

The advancement of technology is a standard of modern daily life, whether it be the release of a new cellphone, computer, or a self-driving car. Due to this constant advancement, the networks on which these technologies operate must advance as well. *Innovations in Software-Defined Networking and Network Functions Virtualization* is a critical scholarly publication that observes the advances made in network infrastructure through achieving cost efficacy while maintaining maximum flexibility for the formation and operation of these networks. Featuring coverage on a broad selection of topics, such as software-defined storage, openflow controller, and storage virtualization, this publication is geared toward professionals, computer engineers, academicians, students, and researchers seeking current and relevant research on the advancements made to network infrastructures.

*A Modern Approach* CRC Press

Distributed Artificial Intelligence (DAI) came to existence as an approach for solving complex learning, planning, and decision-making problems. When we talk about decision making, there may be some meta-heuristic methods where the problem solving may resemble like operation research. But exactly, it is not related completely to management research. The text examines representing and using organizational knowledge in DAI systems, dynamics of computational ecosystems, and communication-free interactions among rational agents. This publication takes a look at conflict-resolution strategies for nonhierarchical distributed agents, constraint-directed negotiation of resource allocations, and plans for multiple agents. Topics included plan verification, generation, and execution, negotiation operators, representation, network management problem, and conflict-resolution paradigms. The manuscript elaborates on negotiating task decomposition and allocation using partial global planning and mechanisms for assessing nonlocal impact of local decisions in distributed planning. The book will attract researchers and practitioners who are working in management and computer science, and industry persons in need of a beginner to advanced understanding of the basic and advanced concepts.

*OPTRONIX 2020* Academic Press

This book constitutes the thoroughly refereed proceedings of the Third International Conference on Advances in Communication, Network, and Computing, CNC 2012, held in Chennai, India, February 24-25, 2012. The 41 revised full papers presented together with 29 short papers and 14 poster papers were carefully selected and reviewed from 425 submissions. The papers cover a wide spectrum of issues in the field of Information Technology, Networks, Computational Engineering, Computer and Telecommunication Technology, ranging from theoretical and methodological issues to advanced applications.

*Evolving Technologies for Computing, Communication and Smart World* CRC Press

The book is intended for the undergraduate and postgraduate students of computer science and engineering and information technology, and the students of master of computer applications. The purpose of this book is to introduce this subject as a comprehensive text which is self-contained and covers all the aspects of network security. Each chapter is divided into sections and subsections to facilitate design of the curriculum as per the academic needs. The text contains numerous examples and illustrations that enhance conceptual clarity. Each chapter has a set of problems at the end of chapter that inspire the reader to test his understanding of the subject. Answers to most of the problems are given at the end of the book. Key Features • The subject matter is illustrated with about 200 figures and numerous examples at every stage of learning. • The list of recommended books, technical articles, and standards is included chapter-wise at the end of the book. • An exhaustive glossary and a list of frequently used acronyms are also given. • The book is based on the latest versions of the protocols (TLS, IKE, IPsec, S/MIME, Kerberos, X.509 etc.).

*Innovations in Software-Defined Networking and Network Functions Virtualization* PHI Learning Pvt. Ltd.

This book includes original unpublished contributions presented at the International Conference on Data Analytics and Management (ICDAM 2020), held at Jan Wzykowski University, Poland, during June 2020. The book covers the topics in data analytics, data management, big data, computational intelligence, and communication networks. The book presents innovative work by leading academics, researchers, and experts from industry which is useful for young researchers and students.

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**Recent Advances in Security, Privacy, and Trust for Internet of Things (IoT) and Cyber-Physical Systems (CPS)** Springer

This fully revised and updated book, now in its Fourth Edition, continues to provide a comprehensive coverage of data communications and computer networks in an easy-to-understand style. The text places as much emphasis on the application of the concepts as on the concepts themselves. While the theoretical part is intended to offer a solid foundation of the basics so as to equip the student for further study, the stress on the applications is meant to acquaint the student with the realistic status of data communications and computer networks as of now. Audience Intended primarily as a textbook for the students of computer science and engineering, electronics and communication engineering, master of computer applications (MCA), and those offering IT courses, this book would also be useful for practising professionals. NEW TO THIS EDITION • Three new chapters on: o Network Architecture and OSI Model o Wireless Communication Technologies o Web Security • Appendix on Binary and Hexadecimal Numbering Key features • Illustrates the application of the principles through highly simplified block diagrams. • Contains a comprehensive glossary which gives simple and accurate descriptions of various terms. • Provides Questions and Answers at the end of the book which facilitate quick revision of the concept.

*Elements of Programming Interviews in Python* IGI Global

This book is a collection of high-quality peer-reviewed contributions from the academicians, researchers, practitioners, and industry professionals, accepted in the International Conference on Advances in Data Computing, Communication and Security (I3CS2021) organized by the Department of Electronics and Communication Engineering in collaboration with the Department of Computer Engineering, National Institute of Technology, Kurukshetra, India during 08-10 Sep 2021. The fast pace of advancing technologies and growing expectations of the next-generation requires that the researchers must continuously reinvent themselves through new investigations and development of the new products. The theme of this conference is devised as "Embracing Innovations" for the next-generation data computing and secure communication system.

*Ibi* Springer

This book presents the latest research in the fields of computational intelligence, ubiquitous computing models, communication intelligence, communication security, machine learning, informatics, mobile computing, cloud computing and big data analytics. The best selected papers, presented at the International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2020), are included in the book. The book focuses on the theory, design, analysis, implementation and applications of distributed systems and networks.

CRC Press

This handbook introduces the basic principles and fundamentals of cyber security towards establishing an understanding of how to protect computers from hackers and adversaries. The highly informative subject matter of this handbook, includes various concepts, models, and terminologies along with examples and illustrations to demonstrate substantial technical details of the field. It motivates the readers to exercise better protection and defense mechanisms to deal with attackers and mitigate the situation. This handbook also outlines some of the exciting areas of future research where the existing approaches can be implemented. Exponential increase in the use of computers as a means of storing and retrieving security-intensive information, requires placement of adequate security measures to safeguard the entire computing and communication scenario. With the advent of Internet and its underlying technologies, information security aspects are becoming a prime concern towards protecting the networks and the cyber ecosystem from variety of threats, which is illustrated in this handbook. This handbook primarily targets professionals in security, privacy and trust to use and improve the reliability of businesses in a distributed manner, as well as computer scientists and software developers, who are seeking to carry out research and develop software in information and cyber security. Researchers and advanced-level students in computer science will also benefit from this reference.

*Applications of Deep Learning and Big IoT on Personalized Healthcare Services* Springer Nature

This book provides readers with a concise introduction to current studies on operator-algebras and their generalizations, operator spaces and operator systems, with a special focus on their application in quantum information science. This basic framework for the mathematical formulation of quantum information can be traced back to the mathematical work of John von Neumann, one of the pioneers of operator algebras, which forms the underpinning of most current mathematical treatments of the quantum theory, besides being one of the most dynamic areas of twentieth century functional analysis. Today, von Neumann's foresight finds expression in the rapidly growing field of quantum information theory. These notes gather the content of lectures given by a very distinguished group of mathematicians and quantum information theorists, held at the IMSc in Chennai some years ago, and great care has been taken to present the material as a primer on the subject matter. Starting from the basic definitions of operator spaces and operator systems, this text proceeds to discuss several important theorems including Stinespring's dilation theorem for completely positive maps and Kirchberg's theorem on tensor products of  $C^*$ -algebras. It also takes a closer look at the abstract characterization of operator systems and, motivated by the requirements of different tensor products in quantum information theory, the theory of tensor products in operator systems is discussed in detail. On the quantum information side, the book offers a rigorous treatment of quantifying entanglement in bipartite quantum systems, and moves on to review four different areas in which ideas from the theory of operator systems and operator algebras play a natural role: the issue of zero-error communication over quantum channels, the strong subadditivity property of quantum entropy, the different norms on quantum states and the corresponding induced norms on quantum channels, and, lastly, the applications of matrix-valued random variables in the quantum information setting.